

**METHOD AND APPARATUS FOR ADAPTIVE PIXEL CORRECTION OF A
MULTI-COLOR MATRIX**

ABSTRACT OF THE INVENTION

A method of adaptive pixel correction of a multi-color matrix from a sensor includes collecting pixel values, generating plural vectors, normalizing values and determining an estimated value. The collecting pixel values collects values of a two-dimensional multi-pixel kernel around a particular pixel from the multi-color matrix. The generating plural vectors generates vectors from the kernel where each vector has the particular pixel as a central element. The normalizing values normalizes values for nearest neighbor elements to the central element for each vector. The determining an estimated value determines the value based on the normalized values.